



# NOAA Satellite and Information Service

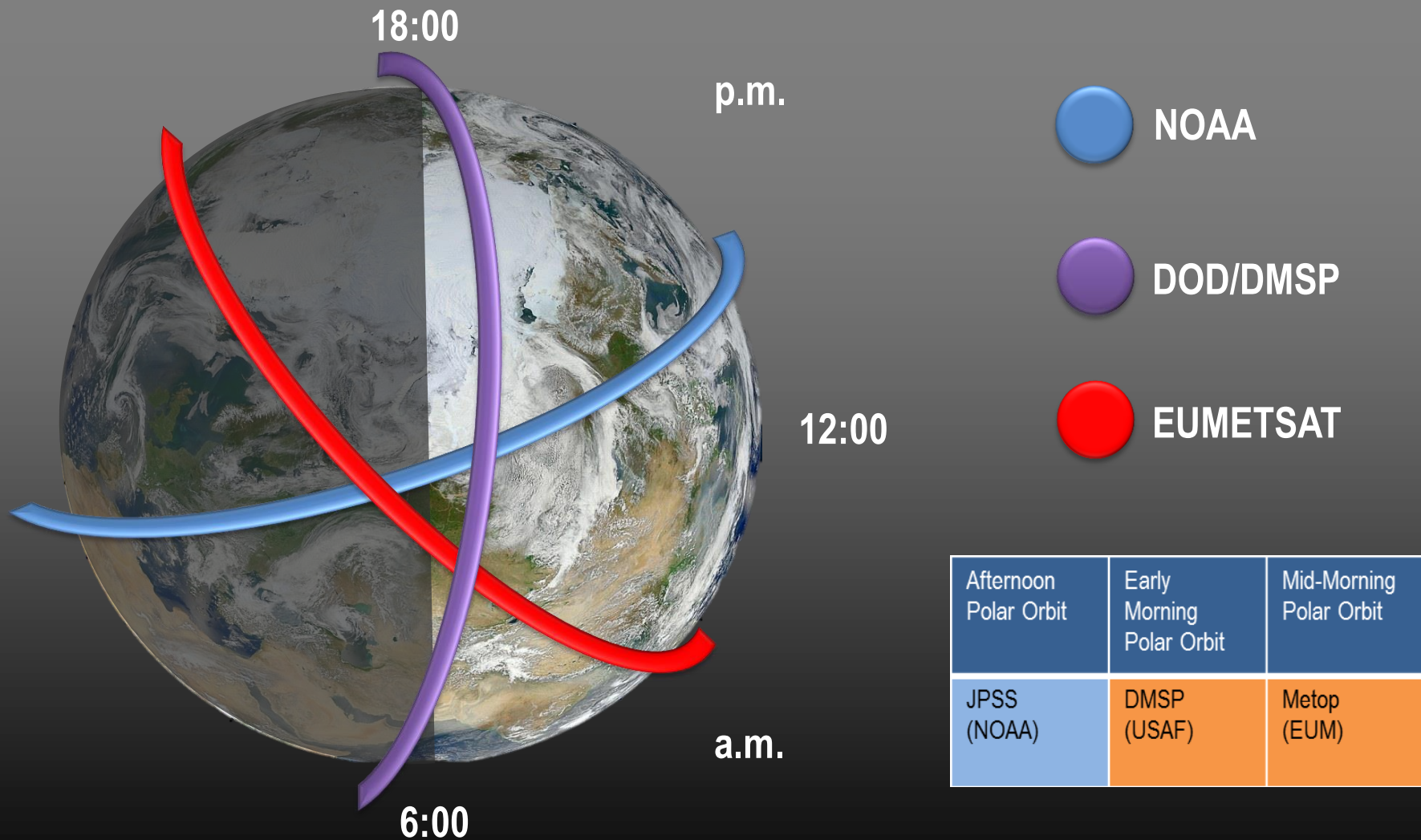
*Dr. Stephen Volz, Assistant Administrator*

Enterprise View of Satellites  
American Meteorological Society Annual Meeting  
January 5, 2015

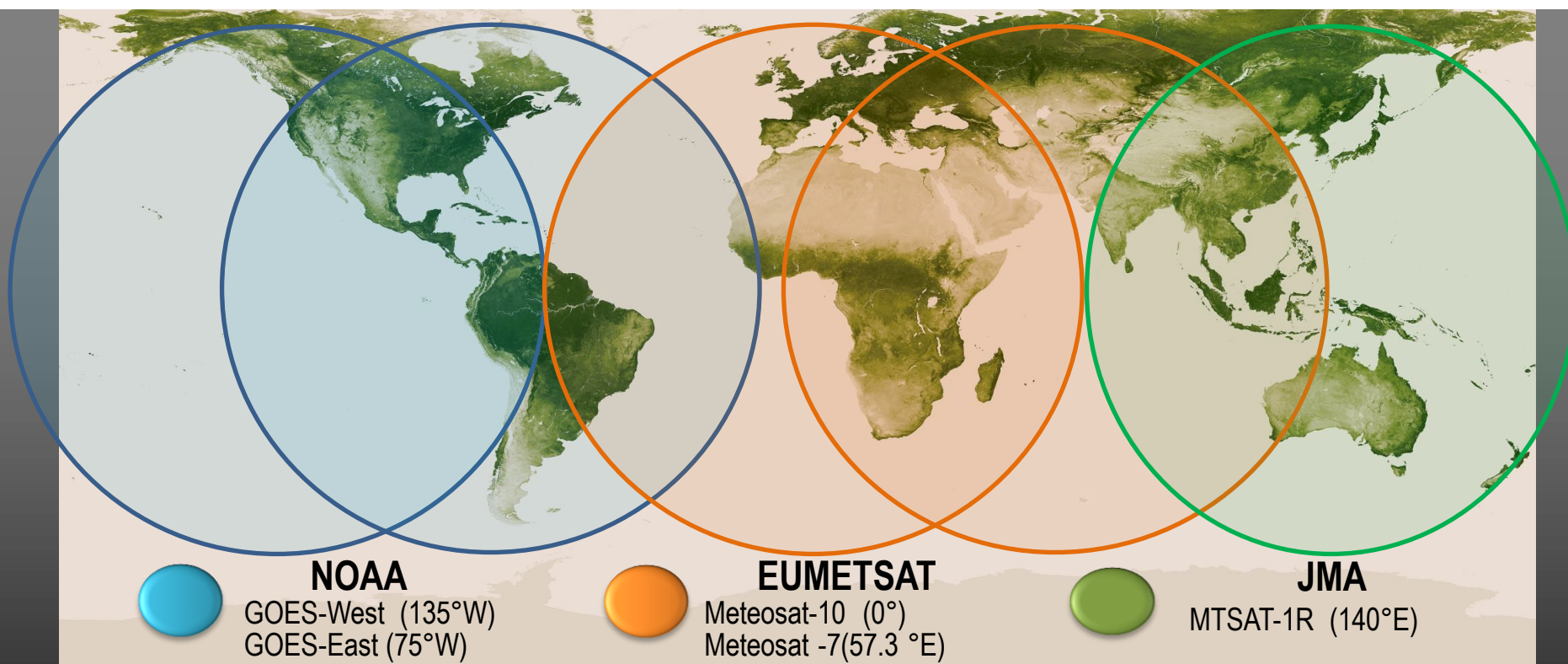
NOAA Satellite and Information Service



# Observations from Polar Orbit



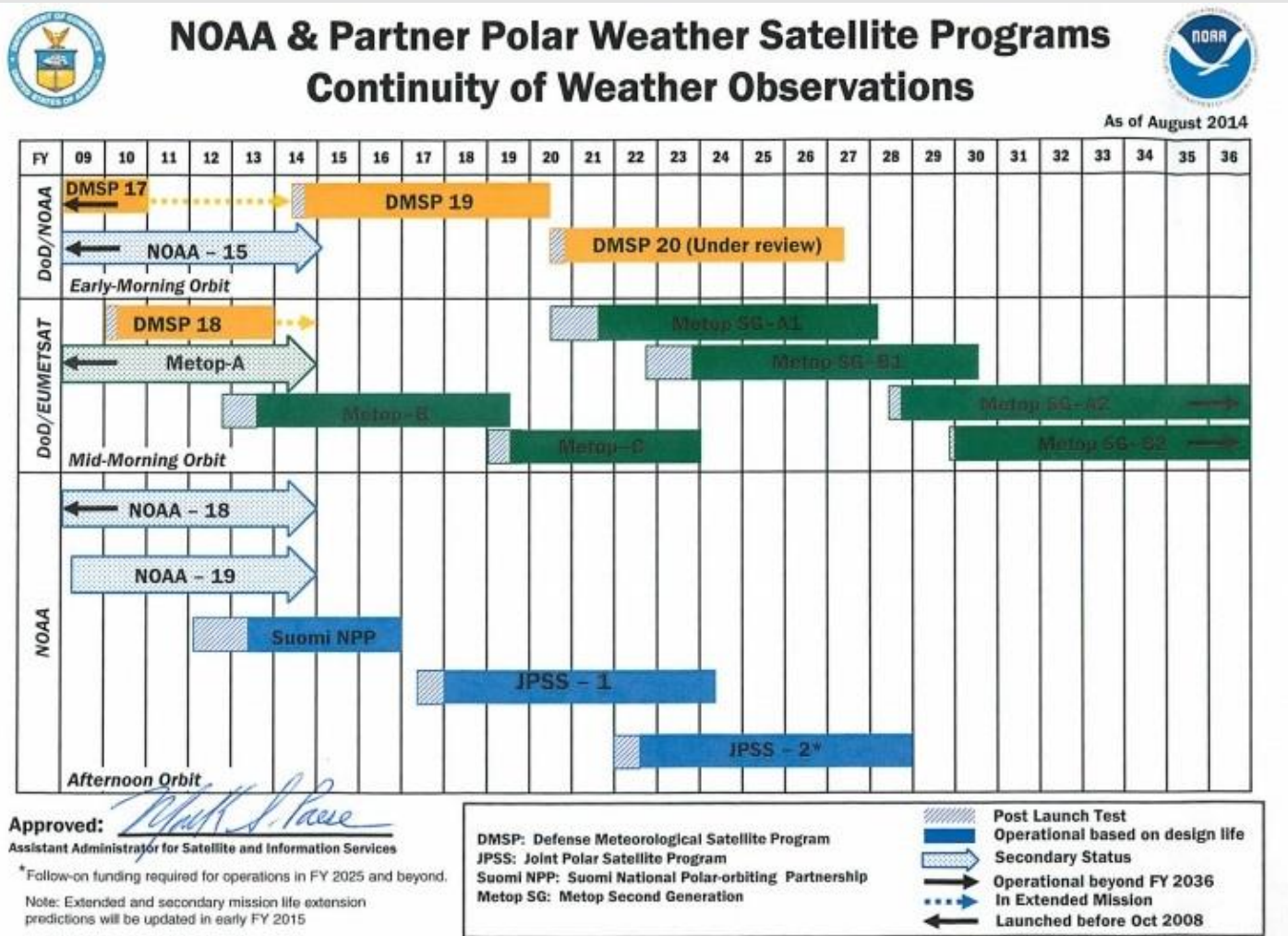
# Observations from Geostationary Orbit



Western Americas Geo	Eastern Americas Geo	Asia, Pacific Geo	Europe, Africa, Middle East Geo
GOES-R (NOAA)	GOES-R (NOAA)	MTSAT (JMA)	Meteosat (EUM)



# Polar Flyout Chart



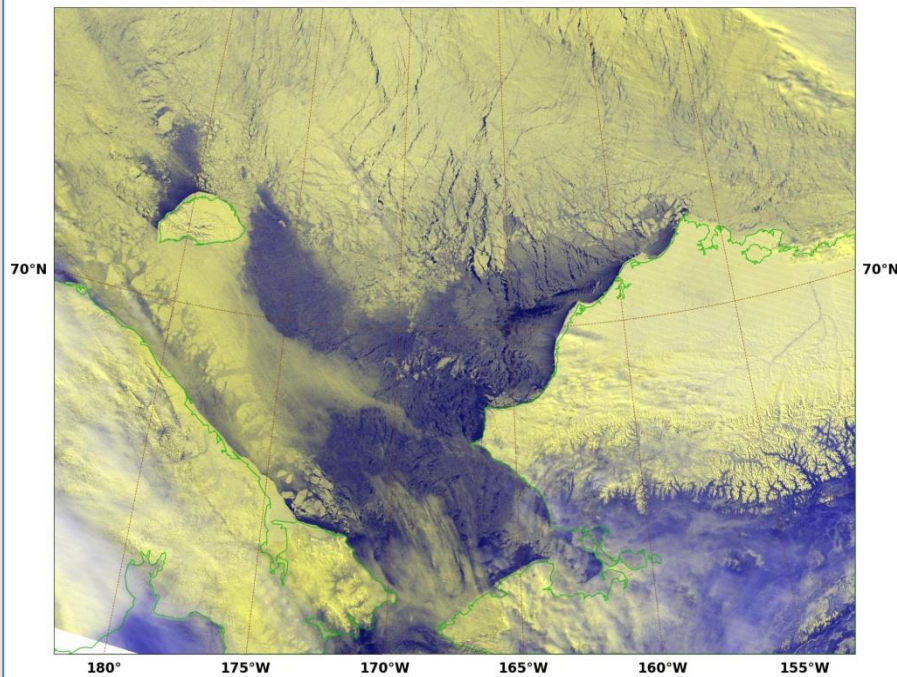
## Continuity of GOES Mission



# JPSS Capabilities

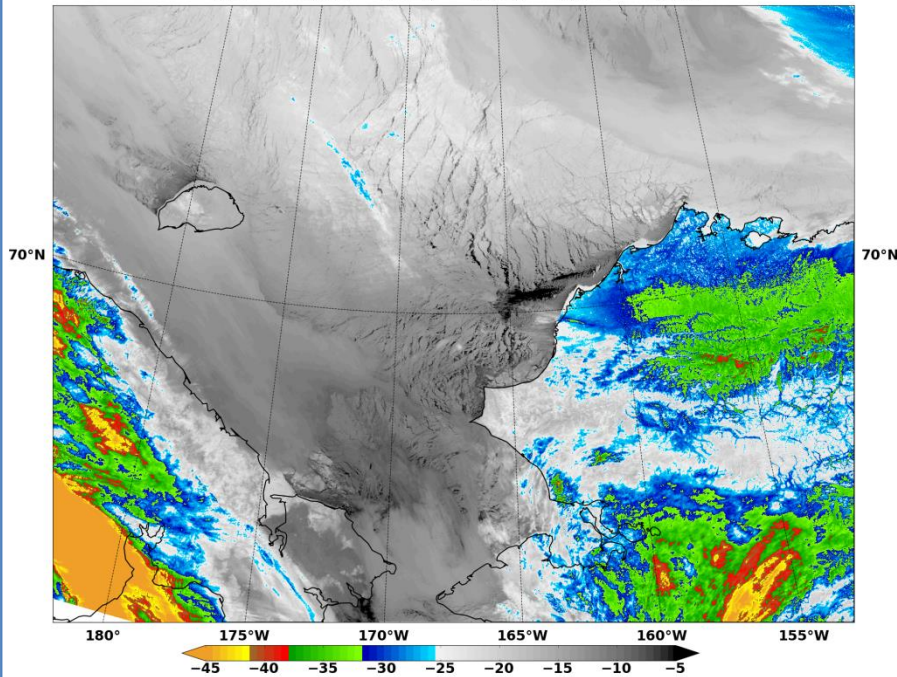
## VIIRS Day Night Band

NPP VIIRS Lunar-Ref-IR 2012/11/28 13:24:23Z NRL-Monterey  
180° 175°W 170°W 165°W 160°W 155°W



## VIIRS Infrared

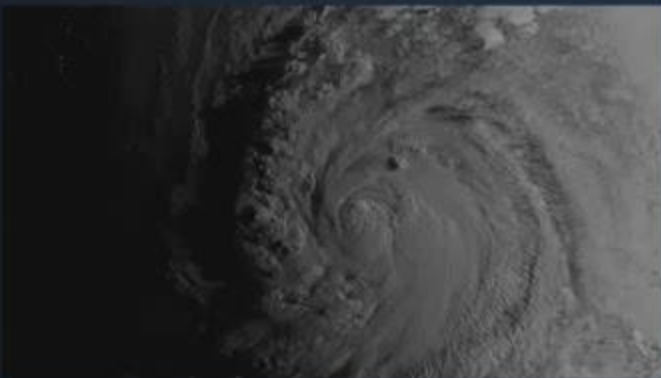
NPP VIIRS Infrared-Polar 2012/11/28 13:24:23Z NRL-Monterey  
180° 175°W 170°W 165°W 160°W 155°W



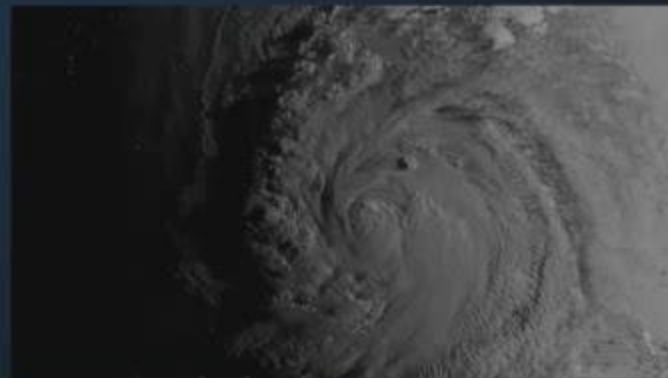


# GOES-R Capabilities

## Now and in the Future



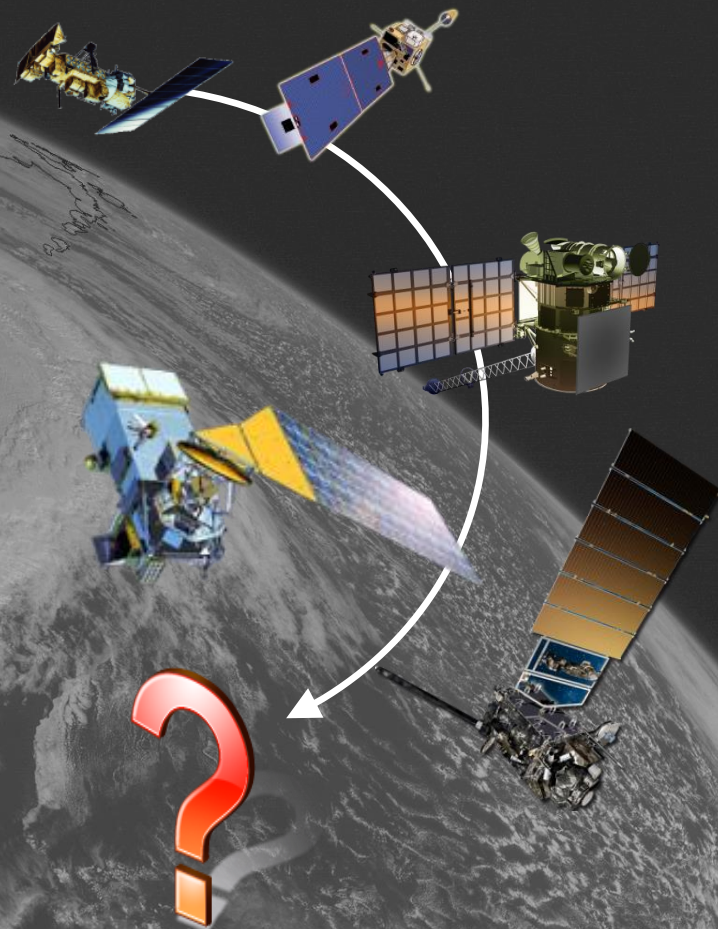
Routine Northern Hemisphere Coverage  
30-minute imagery



Super Rapid Scan Operations for GOES-R  
1-minute imagery

# NESDIS: Future Satellite Architectures

- Plan for more robust systems architecture at the enterprise level and satellite architectures beyond GOES-R and JPSS
- Explore options by assessing new technologies along with new science
- Leverage partnerships with NASA, other labs, industry, and academia
- Take new approaches at the programmatic level
- Hosted payloads? Smaller satellites? More satellite collaborations?





# NESDIS: Future Ground Systems

## Ground Enterprise Architecture Services (GEARS)

Observatory Management	Defined interfaces to ground systems
Product Management	Generate products
	Publish products
	Collect product information
	Collect processing information
Enterprise Management	Workflow management
	Repository management
	Access service
	Repository management services
Infrastructure	Infrastructure as a Service
Developer and Maintenance Tools Suite	

## Ground Enterprise Value Added

- Greater efficiency and lower costs through common services and logistics
- Improved utilization by sharing resources across all mission needs
- Faster, more economical algorithm and product development and deployment
- Increased interoperability and simpler incorporation of new assets
- More flexible technology insertion
- Requirements-based end-to-end systems engineering for better risk management

# NESDIS: The Future of Data

- Support NOAA's partnerships with private industry as part of the Department of Commerce's Big Data Initiative
- Develop a commercial data policy to assure primary mission functions while maintaining full and open data sharing





# Thank you!

